

Alaska Railroad Corporation Post Retirement Health Care Plan

BARTEL SSOCIATES, LLC

> December 31, 2019 GASBS 74 & 75 Reporting



GASBS 74 and 75 Reporting for the Alaska Railroad Corporation Post Retirement Healthcare Plan

This report presents reporting and disclosure information for the Alaska Railroad Corporation (ARRC) Post Retirement Health Care Plan ("Plan") for the fiscal year ending December 31, 2019 to assist ARRC in preparing financial statement information in accordance with Governmental Accounting Standards Board Statement Nos. 74 and 75 (GASBS 74 & 75), "Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans" and "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions." ARRC implemented GASBS 74 & 75 beginning fiscal year ending December 31, 2016.

This report is based on our January 1, 2019 actuarial valuation of the Plan for Calendar Year 2019 Funding and our report dated June 19, 2019 which contains complete details of that valuation and is to be considered a part of this report. Trust information including cash flow timing was provided by the employer.

The report provides information intended for reporting under GASBS 74 & 75, but may not be appropriate for other purposes. Information provided in this report may be useful to ARRC for the Plan's financial management. Future results may differ significantly if the Plan's experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASBS 74 & 75. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Mary Elizabeth Redding

May Ugheth Redding

FSA, MAAA, EA, FCA

Vice President

Bartel Associates, LLC

March 5, 2020

Katherine Moore

ASA, MAAA

Associate Actuary

Bartel Associates, LLC

Katherine Moore

March 5, 2020

TABLE OF CONTENTS

SF	CCTION	PAGE
1.	GASBS 74 & 75 Applicable Dates and Periods	1
2.	GASBS 74 & 75 Discount Rates	2
3.	GASBS 74 & 75 Note Disclosures	3
4.	GASBS 74 & 75 Required Supplementary Information	10
5.	GASBS 74 & 75 Supporting Calculations	12

SECTION 1 GASBS 74 & 75 APPLICABLE DATES AND PERIODS

Applicable Dates and Periods

Fiscal Year Ending	December 31, 2019		
Reporting Standards	GASBS 74	GASBS 75	
■ Reporting date ¹	December 31, 2019	December 31, 2019	
■ Reporting period	Fiscal Year 2019	Fiscal Year 2019	
■ Measurement date ²	N/A	December 31, 2019	
■ Measurement period	N/A	January 1, 2019 to December 31, 2019	
■ Actuarial valuation date ³	January 1, 2019	January 1, 2019	
■ Actuarial Valuation Roll-forward Date	December 31, 2019	December 31, 2019	

Within 30 months of the employer's fiscal year end for GASBS 75 and 24 months of the Plan's fiscal year end for GASBS 74.





Employer's fiscal year-end.

No earlier than employer's prior fiscal year end.

SECTION 2 GASBS 74 & 75 DISCOUNT RATE

<u>Target Allocation and Expected Rate of Return</u> (Information provided by the Investment Advisor, The Hyas Group)

	Target	Expected Real Rate of Return -	Expected Real Rate of Return - Long
	Allocation	Intermediate Term	Term
■ Cash	0.00%	n/a	n/a
■ US TIPS	5.00%	2.80%	1.94%
■ Total Bond Return	30.00%	2.70%	2.43%
■ Global Bond	5.00%	3.05%	2.43%
■ High Yield Bond	10.00%	4.72%	3.88%
■ Domestic Large Cap	15.00%	4.87%	6.80%
■ Domestic Mid Cap	5.00%	5.60%	7.77%
■ Domestic Small Cap	4.00%	5.85%	8.74%
■ US Healthcare (Equity)	5.00%	5.26%	7.28%
■ International Equity	6.00%	5.36%	7.04%
■ Real Estate	15.00%	5.11%	4.61%





Page 2

Net OPEB Liability/(Asset)

Net OPEB Liability	December 31, 2018	December 31, 2019
Measurement Date	December 31, 2018	December 31, 2019
■ Total OPEB liability (TOL)	\$ 15,332,156	\$ 15,682,068
■ Fiduciary net position (FNP)	45,248,167	50,914,797
■ Net OPEB liability (NOL)	\$ (29,916,011)	\$ (35,232,729)
■ Funded status (FNP/TOL)	295.1%	324.7%

Contribution Rates for 2019

■ Employer rate (based on actuarially determined contribution payable at end of year)

0%

■ Employee rate

N/A

2019 Annual Money Weighted Rate of Return

■ Annual Money Weighted Rate of Return, Net of Investment Expense

13.52%





Changes in Net OPEB Liability/(Asset)

	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability/(Asset) (a) – (b)
■ Balances at FYE 12/31/18	\$ 15,332,156	\$ 45,248,167	\$ (29,916,011)
■ Changes for the year:			
 Service cost 	529,350		529,350
Interest	1,003,334		1,003,334
• Change of benefit terms	0		0
 Differences between expected and actual experience 	(1,998,306)		(1,998,306)
 Changes of assumptions 	1,186,467		1,186,467
Contributions— employer		0	0
Contributions— employee		0	0
 Net investment income 		6,096,578	(6,096,578)
 Benefit payments, net of retiree premiums 	(370,933)	(370,933)	0
 Administrative expense 		(59,015)	59,015
 Other changes 	0	0	0
Net changesBalances at FYE 12/31/19	349,912 \$ 15,682,068	5,666,630 \$ 50,914,797	(5,316,718) \$ (35,232,729)

Sensitivity of Net OPEB Liability to Changes in the Discount Rate

	1%	Discount Rate	1% Ingress
	Decrease (5.75%)	(6.75%)	Increase (7.75%)
■ Net OPEB Liability (Asset) at 12/31/19	\$ (32,694,190)	\$ (35,232,729)	\$ (37,265,199)

Sensitivity of Net OPEB Liability to Changes in the Medical Trend Rate

		1%	Medical Trend	1%
		Decrease	Rate	Increase
•	Net OPEB Liability (Asset) at 12/31/19	\$ (37,722,894)	\$ (35,232,729)	\$ (32,030,734)





OPEB Expense (Income) GASBS 75 Note Disclosure

■ OPEB Expense (Income) 2019 \$ (1,286,437)

Deferred Outflows and (Inflows) of Resources GASBS 75 Note Disclosures

	Decembe	r 31, 2019
Deferred Outflows and Inflows of Resources	Deferred Outflows of Resources	Deferred (Inflows) of Resources
■ Differences between expected and actual experience	\$ 0	\$ (6,502,668)
Changes of assumptions	\$ 3,032,022	0
 Net difference between actual and projected earnings on investments 	0	(549,873)
■ Employer contributions made subsequent to the Measurement Date	<u>N/A</u>	N/A
■ Total	\$ 3,032,022	\$ (7,052,541)

Amounts reported as deferred outflows and (inflows) of resources will be recognized in OPEB expense as follows

Year Ended December 31	Total
2020	\$ (532,368)
2021	(543,146)
2022	(258,335)
2023	(1,076,480)
2024	(465,114)
Thereafter	\$ (1,145,076)





Significant Actuarial Assumptions Used for Total OPEB Liability

Actuarial Assumption	December 31, 2019
■ Discount Rate	■ 6.75%, based on satisfaction of Crossover Test
■ Long Term Rate of Return	■ 6.75%, selected by ARRC. Bartel Associates estimates that a passively managed portfolio with a similar asset allocation would exceed the selected rate about 35%-40% of the time.
■ Inflation	2.8%
■ Salary Increases	 2.8% salary inflation plus Merit Increase Rate based on Alaska Railroad Corporation Pension and Post Retirement Health Care Plans 2010-2014 Experience Study. See rates below.
■ Pre-Retirement Mortality	 Society of Actuaries RP-2014 employee mortality table Mortality projected fully generational with Scale MP-2018
■ Post-Retirement Mortality	 Society of Actuaries RP-2014 healthy annuitant table adjusted 91% for males and 96% for females Mortality projected fully generational with Scale MP-2018
Post-RetirementDisabled Mortality	 Society of Actuaries RP-2014 disabled retiree table Mortality projected fully generational with Scale MP-2018
■ Retirement, Disablement, Termination	■ Based on Alaska Railroad Corporation Pension and Post Retirement Health Care Plans 2010-2014 Experience Study. Rates of disablement were set equal to those used by Alaska PERS as there is little Plan experience. See below for detailed tables.
■ Participation Rates	 After eligibility for a ARRC premium subsidy 45% Before eligibility for a ARRC premium subsidy 35% Disabled retirees 85% Non-disabled retirees continuing coverage upon reaching Medicare eligibility 55%
■ Per Capita Claims Costs	■ Same as for Actuarially Determined Contribution
Crossover Test Assumptions	 Administrative expenses: 0.15% of payroll, based on actual current year expense of \$59,015. Employer contributions: None
■ Health Care Trend	■ Non-Medicare – 7.5% for 2020, decreasing to an ultimate rate of 4.0% in 2076+
	■ Medicare – 6.5% for 2020, decreasing to an ultimate rate of 4.0% in 2076+ See rates below.





Health Care Trend (Increase from Prior Year)			
Year	Year Non-Medicare Medicare		
2019	Actual P	remiums	
2020	7.50%	6.50%	
2021	7.25%	6.30%	
2022	7.00%	6.10%	
2023	6.75%	5.90%	
2024	6.50%	5.70%	
2025	6.25%	5.50%	
2026	6.00%	5.30%	
2027	5.80%	5.15%	
2028	5.60%	5.00%	
2029	5.40%	4.85%	
2030	5.20%	4.70%	
2031-2035	5.05%	4.60%	
2036-2045	4.90%	4.50%	
2046-2055	4.75%	4.45%	
2056-2065	4.60%	4.40%	
2066-2075	4.30%	4.20%	
2076+	4.00%	4.00%	





Service	Salary "Merit" Increase	Termination Rates
0	8.00%	34.00%
1	2.00%	28.00%
2	6.50%	18.00%
3	6.50%	15.00%
4	6.50%	12.00%
5	2.50%	10.00%
6-7	1.50%	8.00%
8-10	1.50%	6.00%
11	1.25%	6.00%
12-15	1.25%	5.00%
16-17	1.10%	5.00%
18-19	1.10%	3.00%
20+	1.10%	2.00%

Age	Retirement	Retirement
	Rates	Rates
	Tier 1	Tier 2
55	6.00%	N/A
56	6.00%	N/A
57	12.50%	N/A
58	12.50%	N/A
59	20.00%	N/A
60	20.00%	10.00%
61	20.00%	10.00%
62	25.00%	15.00%
63	15.00%	15.00%
64	20.00%	20.00%
65	15.00%	25.00%
66	15.00%	25.00%
67	25.00%	25.00%
68	25.00%	25.00%
69	25.00%	25.00%
70	100.00%	100.00%

	Disablement	Disablement
Age	Male	Female
20	0.03%	0.02%
25	0.03%	0.03%
30	0.04%	0.03%
35	0.04%	0.03%
40	0.05%	0.04%
45	0.07%	0.06%
50	0.11%	0.08%
55	0.18%	0.13%
60	0.37%	0.28%





Changes Since December 31, 2018 Measurement Date

	December 31, 2019
■ Changes of Assumptions Since the	■ The mortality tables and mortality improvement projection were updated.
Prior Measurement	■ The salary inflation was changed from 3.0% to 2.8%.
Date	■ The Affordable Care Act Excise Tax was removed.





SECTION 4

GASBS 74 & 75 REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in Net OPEB Liability and Related Ratios⁴

	2019
Changes in Total OPEB Liability	
 Service cost 	\$ 529,350
 Interest 	1,003,334
 Changes of benefit terms 	0
 Differences between expected and actual experience 	(1,998,306)
 Changes of assumptions 	1,186,467
 Benefit payments, net of retiree premiums Net changes 	(370,933) 349,912
 Total OPEB Liability at beginning of year Total OPEB Liability at end of year 	15,332,156 \$ 15,682,068
■ Changes in Plan Fiduciary Net Position	
 Contributions—employer 	\$ 0
 Contributions—employee 	0
 Net investment income 	6,096,578
 Benefit payments, net of retiree premiums 	(370,933)
Administrative expense	(59,015)
 Other changes 	0
■ Net changes	5,666,630
 Plan Fiduciary Net Position at beginning of year Plan Fiduciary Net Position at end of year 	\$\frac{45,248,167}{50,914,797}\$
■ Net OPEB Liability (Asset)	\$ (35,232,729)
 Plan Fiduciary Net Position as percentage of Total OPEB Liability 	324.7%
■ Covered employee payroll	\$ 32,153,711
 Net OPEB Liability (Asset) as percentage of covered employee payroll 	(109.6%)

GASBS 74 & 75 require this information be reported in the employer's Required Supplementary Information for 10 years or as many years are available upon implementation



ALASKA

SECTION 4

GASBS 74 & 75 REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Employer Contributions⁵

	2019
 Actuarially Determined Contribution 	\$ 0
 Contributions in relation to the actuarially determined contribution 	<u>0</u>
■ Contribution deficiency (excess)	0
■ Covered employee payroll ⁶	32,153,711
 Contributions as percentage of covered employee payroll 	0.0%

Notes to Schedule of Employer Contributions

Significant Actuarial Assumptions Used for Actuarially Determined Contribution

Assumption	2019
■ Actuarial	■ January 1, 2019
valuation date	
■ Amortization	■ The Overfunded Actuarial Accrued Liability is amortized as a level
period	dollar payment over a rolling (open) 6-year period
■ Asset method	Actuarial value of assets
	■ 5-year smoothed market value: Gains/losses recognized over 5 years
■ Inflation	2 .8%
■ Investment	■ 6.75%, net of investment but not administrative expenses
Rate of Return	
■ Administrative	 Assumed to equal the actual expenses paid in the prior year, increased
Expenses	2.8% (same as wage inflation and productivity increases)
■ ACA Excise	Estimated based on blended rates
Tax	
■ All Other	■ Same assumptions used to calculate the December 31, 2019 Total OPEB
Assumptions	Liability

⁶ GASBS 82 requires use of pensionable payroll for covered employees for all years





GASBS 74 & 75 require this information be reported in the employer's Required Supplementary Information for 10 years or as many years are available upon implementation

Recognition of Deferred Outflows and (Inflows)

Differences between Expected and Actual Experience

Measurement Period:	2016	2017	2018	2019	Total
■ Initial amount	\$ (1,832,116)	\$ (164,850)	\$ (4,510,838)	\$ (1,998,306)	
 Initial recognition period 	9.22 years	9.55 years	9.55 years	9.42 years	
 Amount recognized in OPEB 					
expense for fiscal year:					
• 2019	(198,711)	(17,262)	(472,339)	(212,134)	(900,446)
• 2020	(198,711)	(17,262)	(472,339)	(212,134)	(900,446)
• 2021	(198,711)	(17,262)	(472,339)	(212,134)	(900,446)
• 2022	(198,711)	(17,262)	(472,339)	(212,134)	(900,446)
• 2023	(198,711)	(17,262)	(472,339)	(212,134)	(900,446)
• 2024	(198,711)	(17,262)	(472,339)	(212,134)	(900,446)
• Thereafter	(43,717)	(26,754)	(1,204,465)	(725,502)	(2,000,438)
■ Deferred Outflows as of 12/31/19	0	0	0	0	0
■ Deferred (Inflows) as of 12/31/19	(1,037,272)	(113,064)	(3,566,160)	(1,786,172)	(6,502,668)

Changes of Assumptions

Measurement Period:	2016	2017	2018	2019	Total
■ Initial amount	\$ 1,441,631	\$ 0	\$ 1,461,354	\$ 1,186,467	
■ Initial recognition period	9.22 years	9.55 years	9.55 years	9.42 years	
Amount recognized in OPEB expense for fiscal year:					
• 2019	156,359	0	153,021	125,952	435,332
• 2020	156,359	0	153,021	125,952	435,332
• 2021	156,359	0	153,021	125,952	435,332
• 2022	156,359	0	153,021	125,952	435,332
• 2023	156,359	0	153,021	125,952	435,332
• 2024	156,359	0	153,021	125,952	435,332
• Thereafter	34,400	0	390,207	430,755	855,362
■ Deferred Outflows as of 12/31/19	816,195	0	1,155,312	1,060,515	3,032,022
■ Deferred (Inflows) as of 12/31/19	0	0	0	0	0





Recognition of Deferred Outflows and (Inflows)

Projected Versus Actual Earnings on Investments

Measurement Period:	2015	2016	2017	2018	2019	Total
■ Initial amount	\$3,469,874	\$53,872	\$(1,424,052)	\$4,090,739	\$(3,056,838) ⁷	
 Initial recognition period 	5 years	5 years	5 years	5 years	5 years	
Amount recognized in OPEB expense for fiscal year:						
• 2019	693,974	10,774	(284,810)	818,148	(611,368)	626,718
• 2020	0	10,776	(284,810)	818,148	(611,368)	(67,254)
• 2021	0	0	(284,812)	818,148	(611,368)	(78,032)
• 2022	0	0	0	818,147	(611,368)	206,779
• 2023	0	0	0	0	(611,366)	(611,366)
• 2024	0	0	0	0	0	0
• Thereafter	0	0	0	0	0	0
■ Deferred Outflows/(Inflows) as of 12/31/19	0	10,776	(569,622)	2,454,443	(2,445,470)	(549,873)

⁷ Projected earnings of \$3,039,740 (page 14) less actual earnings of \$6,096,578 (page 4) = (3,056,838)





Components of GASBS 75 OPEB Expense (Income)

	2019
■ Service cost	\$ 529,350
■ Interest on the total OPEB liability including service cost	1,003,334
■ Projected earnings on plan investments	(3,039,740)
■ Employee contributions	0
■ Administrative expense	59,015
■ Change in benefit terms	0
■ Recognition of deferred outflows and (inflows) of resources:	
 Difference between expected and actual experience 	(900,446)
• Change in assumptions	435,332
• Difference between actual and projected earnings on investment	626,718
■ Total OPEB Expense (Income)	\$ (1,286,437)

Calculation of Interest on the Total OPEB Liability

	Dollar	Discount	Portion	
	Amount	Rate	of Year	Interest
 Beginning total OPEB liability 	\$ 15,332,156	6.75%	100%	\$ 1,034,921
■ Plan experience (gain) loss	(1,998,306)	6.75%	100%	(134,886)
■ Assumption changes (gain) loss	1,186,467	6.75%	100%	80,087
Change in benefit terms	0	6.75%	100%	0
■ Service cost	529,350	6.75%	100%	35,731
Benefit payments	(370,933)	6.75%	50%	(12,519)
■ Interest on total OPEB liability				\$ 1,003,334

Calculation of Projected Earnings on OPEB Plan Investments

	Dollar Amount	Expected Return	Portion of Year	Projected Earnings
 Beginning fiduciary net position 	\$ 45,248,167	6.75%	100%	\$ 3,054,251
■ Employer contributions	0	6.75%	0%	0
■ Employee contributions	0	6.75%	50%	0
■ Benefit payments	(370,933)	6.75%	50%	(12,519)
Administrative expenses	(59,015)	6.75%	50%	(1,992)
■ Projected earnings on investments				\$ 3,039,740





GASBS 75 Balance Equation

	12/31/18	12/31/19	Change
■ Total OPEB Liability	\$ 15,332,156	\$ 15,682,068	\$ 349,912
■ Fiduciary Net Position	45,248,167	50,914,797	5,666,630
■ Net OPEB Liability (Asset)	(29,916,011)	\$ (35,232,729)	\$ (5,316,718)
Deferred inflows of resources	5,404,808	7,052,541	1,647,733
■ Deferred outflows of resources	(5,414,570)	(3,032,022)	2,382,548
■ Employer contributions	0	0	0
 Net impact on balance sheet 	(29,925,773)	\$ (31,212,210)	\$ (1,286,437)
Check:			
OPEB expense (income) for year			\$ (1,286,437)





<u>Discount Rate Crossover Test</u> Projection of Contributions (Amounts in 000's)

		Employer Contributions	Employee Contributions Contributions from Payroll		
X 7	ъ п	for Current	for Current	of Future	Total
Year	Payroll	Employees	Employees	Employees	Contributions
1	\$ 38,197	\$ 0	\$ 0	\$ 0	\$ 0
2	36,341	0	0	0	0
3	34,664	0	0	0	0
4	33,082	0	0	0	0
5	31,526	0	0	0	0
6	30,026	0	0	0	0
7	28,549	0	0	0	0
8	27,156	0	0	0	0
9	25,743	0	0	0	0
10	24,326	0	0	0	0
11	22,793	0	0	0	0
12	21,415	0	0	0	0
13	20,052	0	0	0	0
14	18,710	0	0	0	0
15	17,528	0	0	0	0
16	16,377	0	0	0	0
17	15,204	0	0	0	0
18	14,061	0	0	0	0
19	12,907	0	0	0	0
20	11,780	0	0	0	0
*	*	*	*	*	*
44	42	0	0	0	0
45	12	0	0	0	0
46	0	0	0	0	0
47	0	0	0	0	0
48	0	0	0	0	0
*	*	*	*	*	*
83	0	0	0	0	0
84	0	0	0	0	0
85	0	0	0	0	0
86	0	0	0	0	0
87	0	0	0	0	0
88	0	0	0	0	0
89	0	0	0	0	0
90	0	0	0	0	0
91	0	0	0	0	0
92	0	0	0	0	0

^{*} Note: Years 21 to 43, 49 to 82, and 93+ omitted.





<u>Discount Rate Crossover Test</u> Projection of Fiduciary Net Position (Amounts in 000's)

	Projected					Projected
	Beginning	Projected	Projected	Projected	Projected	Ending
	Fiduciary	Total	Benefit	Administrative	Investment	Fiduciary
Year	Net Position	Contributions	Payments	Expense	Earnings	Net Position
1	\$ 50,915	\$ 0	\$ 347	\$ 56	\$ 3,423	\$ 53,935
2	53,935	0	450	53	3,624	57,056
3	57,056	0	593	51	3,830	60,242
4	60,242	0	687	48	4,041	63,548
5	63,548	0	774	46	4,262	66,990
6	66,990	0	859	44	4,491	70,578
7	70,578	0	956	42	4,730	74,310
8	74,310	0	1,000	40	4,981	78,251
9	78,251	0	1,069	38	5,245	82,389
10	82,389	0	1,214	36	5,519	86,658
11	86,658	0	1,310	33	5,804	91,119
12	91,119	0	1,326	31	6,105	95,867
13	95,867	0	1,388	29	6,423	100,873
14	100,873	0	1,444	27	6,759	106,161
15	106,161	0	1,532	26	7,113	111,716
16	111,716	0	1,582	24	7,487	117,597
17	117,597	0	1,619	22	7,882	123,838
18	123,838	0	1,616	21	8,304	130,505
19	130,505	0	1,644	19	8,753	137,595
20	137,595	0	1,736	17	9,229	145,071
*	*	*	*	*	*	*
44	543,681	0	1,925	0	36,633	578,389
45	578,389	0	1,914	0	38,977	615,452
46	615,452	0	1,894	0	41,479	655,037
47	655,037	0	1,866	0	44,152	697,323
48	697,323	0	1,830	0	47,007	742,500
*	*	*	*	*	*	*
83	6,705,164	0	17	0	452,598	7,157,745
84	7,157,745	0	12	0	483,147	7,640,880
85	7,640,880	0	8	0	515,759	8,156,631
86	8,156,631	0	6	0	550,572	8,707,197
87	8,707,197	0	4	0	587,736	9,294,929
88	9,294,929	0	2	0	627,408	9,922,335
89	9,922,335	0	2	0	669,758	10,592,091
90	10,592,091	0	1	0	714,966	11,307,056
91	11,307,056	0	1	0	763,226	12,070,281
92	12,070,281	0	0	0	814,744	12,885,025

^{*} Note: Years 21 to 43, 49 to 82, and 93+ omitted.





<u>Discount Rate Crossover Test</u> Present Values of Projected Benefit Payments (Amounts in 000's)

	Proj. Begin.		"Funded"	"Unfunded	PV of	PV of	
	Fiduciary	Projected	Portion of	" Portion of	"Funded"	"Unfunded"	PV Benefit
	Net	Benefit	Benefit	Benefit	Benefit	Benefit	Payments @
Year	Position	Payments	Payments	Payments	Payments	Payments	6.75%
1	\$ 50,915	\$ 347	\$ 347	\$ 0	\$ 305	\$ 0	\$ 305
2	53,935	450	450	0	370	0	370
3	57,056	593	593	0	456	0	456
4	60,242	687	687	0	495	0	495
5	63,548	774	774	0	523	0	523
6	66,990	859	859	0	544	0	544
7	70,578	956	956	0	567	0	567
8	74,310	1,000	1,000	0	555	0	555
9	78,251	1,069	1,069	0	556	0	556
10	82,389	1,214	1,214	0	592	0	592
11	86,658	1,310	1,310	0	598	0	598
12	91,119	1,326	1,326	0	567	0	567
13	95,867	1,388	1,388	0	556	0	556
14	100,873	1,444	1,444	0	542	0	542
15	106,161	1,532	1,532	0	539	0	539
16	111,716	1,582	1,582	0	521	0	521
17	117,597	1,619	1,619	0	500	0	500
18	123,838	1,616	1,616	0	467	0	467
19	130,505	1,644	1,644	0	445	0	445
20	137,595	1,736	1,736	0	440	0	440
*	*	*	*	*	*	*	*
44	543,681	1,925	1,925	0	102	0	102
45	578,389	1,914	1,914	0	95	0	95
46	615,452	1,894	1,894	0	88	0	88
47	655,037	1,866	1,866	0	81	0	81
48	697,323	1,830	1,830	0	75	0	75
*	*	*	*	*	*	*	*
83	6,705,164	17	17	0	0	0	0
84	7,157,745	12	12	0	0	0	0
85	7,640,880	8	8	0	0	0	0
86	8,156,631	6	6	0	0	0	0
87	8,707,197	4	4	0	0	0	0
88	9,294,929	2	2	0	0	0	0
89	9,922,335	2	2	0	0	0	0
90	10,592,091	1	1	0	0	0	0
91	11,307,056	1	1	0	0	0	0
92	12,070,281	0	0	0	0	0	0
* Total	*	*	*	*	* \$ 17 046	*	* \$ 17 046
Total				\$ 0	\$ 17,046	\$ 0	\$ 17,046

^{*} Note: Years 21 to 43, 49 to 82, and 93+ omitted.



